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|   | ITILITY  | <del></del>                           | ney Docket                                      |   | 23681-014  | <u>:                                    </u>                     | ز |
|---|--|---------------------------------------|---|---|--|--|---|
| PATENT  | APPLICATION  | First                                 | Inventor  | Aniru   | ddha S. Worlikar, et   | al.  | Ç |
| TRA   | NSMITTAL   | Title                                 | HIGH-P  | URITY   | CYRSTAL GROWTH   | н  | : |
| (Only for new nonprovision  | al applications under 37 C.F.R. 1.53(b))   | Expre                                 | ess Mail Lal                                    | bel No.   | EV231274274US  | S; August 28, 2003   | フ |
| APPL  | ICATION ELEMENTS   |                                       | ADDRE   | CC 1  | Assistant C  | Commissioner for Patents Application                             |   |
|   | eming utility patent application contents.   |                                       | -DDNL   | .00 1   |  | n, DC 20231  |   |
| (Submit an original a 2. Applicant claim: See 37 CFR 1.2 3. Specification (preferred arrange - Descriptive title of - Cross Reference - Statement Repa  | (Total Pages 27 ) ement set forth below) of the Invention to the Invention of the Real Applications rding Fed sponsored R & D  |                                       | Co<br>8. Nucleon<br>(if appli<br>a.             | mputer<br>tide an<br>icable,<br>omputer<br>ification<br>CD-RC<br>paper  | r Program (Appen<br>d/or Amino Acid S<br>all necessary)<br>er Readable Form<br>n Sequence Listin<br>DM or CD-R (2 cop  | Sequence Submission<br>(CRF)<br>g on:<br>bies); or               |   |
|   | quence listing, a table, ogram listing appendix  | _                                     |   |   |  | ity of above copies  | _ |
| Background of the Brief Summary of Brief Summary of Brief Description Detailed Description Claim(s) Abstract of the D  Drawing(s) (35 (6)  Drawing(s) (35 (6)  Newly execute Book Copy from a part of the Book Copy from a | ne Invention of the Invention of the Drawings ( if filed) tition Disclosure  U.S.C.113) [Total Sheets 8 Total Pages 3  ed (original or copy) orior application (37 CFR 1.63 (d)) aution/divisional with Box 18 complete OF INVENTOR(S) ent attached deleting inventor(s) orior application, see 37 CFR | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9.  | Assignr<br>37 C.F.<br>when t<br>English<br>nforma<br>Stateme<br>Prelimin<br>Return<br>Should<br>Certified<br>(if forei<br>Nonpub<br>b)(2)(8 | ment Papers (cover<br>R.§3.73(b) Statem<br>there is an assigned<br>Translation Docu-<br>tion Disclosure<br>ent (IDS)/PTO-144<br>nary Amendment<br>Receipt Postcard<br>to be specifically ited<br>to Copy of Priority<br>ign priority is claim<br>blication Request | er sheet & document(s)) nent                                     |   |
| or in an Application Data Si  ☐ Continuation  Prior application informati  For CONTINUATION or DIVI  under Box 5b, is considered  | Divisional Continuation-in ion: Examiner  SIONAL APPS only: The entire disclosd a part of the disclosure of the accombe relied upon when a portion has been ar Code Label  | ure of the panying in inadve          | P) se prior app or division ertently om NCE ADD | olication<br>al appli<br>itted fro  | f prior application No roup / Art Unit: n, from which an oal cation and is hereborn the submitted a  | o:/  th or declaration is supplied by incorporated by reference. |   |
| Name (Print/Type)   | (Insert Customer No.  Shane H. Hunter, Esq.  | 7                                     | bar code la<br>orney Regi                       |   |  | 41,858   |   |
| Signature   | 1 1 +  |                                       |   |   | Date   | August 28, 2003  |   |

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August 28, 2003

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|---|----------------------|------------------------------|--|--|
| FEE TRANSMITTAL                             | Application Number   |                              |  |  |
| for FY 2002                                 | Filing Date          | August 28, 2003              |  |  |
|   | First Named Inventor | Aniruddha S. Worlikar et al. |  |  |
| Patent fees are subject to annual revision. | Examiner Name        |                              |  |  |
|   |                      |                              |  |  |

Group / Art Unit

23681-014

TOTAL AMOUNT OF PAYMENT Attorney Docket No. METHOD OF PAYMENT (check one) FEE CALCULATION (continued) The Commissioner is hereby authorized to charge 3. ADDITIONAL FEES 1. indicated fees and credit any over payments to: Large Entity Entity Fee Fee Fee Fee Fee Deposit Fee Description Code (\$) Code (\$) Paid Account 105 Number 130 205 65 Surcharge - late filing fee or oath 127 50 227 25 Surcharge - late provisional filing fee or cover sheet. Deposit Account Mintz, Levin, Cohn, Ferris, Glovsky & Popeo PC 139 130 139 130 Non-English specification Name 147 2.520 147 2,520 For filing a request for reexamination Charge Any Additional Fee Required 112 920\* 112 920\* Requesting publication of SIR prior to Under 37 CFR 1.16 and 1.17 Examiner action Applicant claims small entity status. 113 1.840\* 113 1,840\* Requesting publication of SIR after See 37 CFR 1.27 Examiner action Payment Enclosed: 115 110 215 55 Extension for reply within first month 116 400 216 200 Extension for reply within second □ Check □ Credit card ☐ Money □ Other Order 117 920 217 460 Extension for reply within third month **FEE CALCULATION** 118 1,440 218 720 Extension for reply within fourth BASIC FILING FEE month Entity Small Large Entity 128 1,960 228 980 Extension for reply within fifth month Fee Fee Fee Description 119 320 219 160 Notice of Appeal Code (\$) Code (\$) Fee Paid 120 320 220 160 Filing a brief in support of an appeal 101 740 201 370 375 Utility filing fee 121 280 221 140 Request for oral hearing 106 330 206 165 Design filing fee Petition to institute a public use 138 1.510 138 1.510 107 510 207 255 Plant filing fee proceeding 108 740 208 370 Reissue filing fee 140 110 240 55 Petition to revive - unavoidable 114 160 Provisional filling fee 214 80 141 1,280 241 640 Petition to revive - unintentional 142 242 640 1,280 Utility issue fee (or reissue) SUBTOTAL (1) (\$)375 143 460 243 230 Design issue fee 2. EXTRA CLAIM FEES 144 620 244 310 Plant issue fee 122 Extra Fee from Fee 130 122 130 Petitions to the Commissioner Claims below Paid 123 50 123 50 Processing fee under 37 CFR 1.17 (q) 34 Total Claims 14 Х 9 126 Submission of Information Disclosure 126 126 180 180 Independent Stmt 3 0 х 42 0 Claims Recording each patent assignment 581 40 581 40 per property (times number of Multiple 0 properties) 146 740 246 370 Filing a submission after final rejection Entity Large Small Entity (37 CFR § 1.129(a)) Fee Description 149 740 249 370 For each additional invention to be Code (\$) Code (\$) examined (37 CFR § 1.129(b)) 103 203 18 9 Claims in excess of 20 102 84 202 42 Independent claims in excess of 3 179 740 279 370 Request for Continued Examination (RCE) 104 280 204 140 Multiple dependent claim, if not paid 169 900 169 Request for expedited examination 900 \*\* Reissue independent claims over of a design application 109 42 84 209 original patent \*\* Reissue claims in excess of 20 and 110 18 210 9 over original patent Other fee (specify) SUBTOTAL (2) (\$)126 \*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)0 \*\*or number previously paid, if greater; For Reissues, see above

| SUBMITTED BY      |                       |                                  |        | Complete (if applicable) |                 |   |
|-------------------|-----------------------|----------------------------------|--------|--------------------------|-----------------|---|
| Name (Print/Type) | Shane H. Hunter, Esq. | Registration No. Attorney/Agent) | 41,858 | Telephone                | 1-617-348-1765  |   |
| Signature         | Shan                  | · Huter                          |        | Date                     | August 28, 2003 |   |
|                   | + //                  | 1                                |        |                          | <del></del>     | _ |

Express Mail No. EV231274274US Date of Deposit: August 28, 2003

Attorney Docket No. 23681-014

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Aniruddha S. Worlikar, et al.

Filed: HEREWITH, August 28, 2003 Examiner: Not yet assigned

Serial No. Not yet assigned Art Unit: Not yet assigned

For: HIGH-PURITY CRYSTAL GROWTH

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## REQUEST AND CERTIFICATION UNDER 37 C.F.R. §122(b)(2)(B)(i)

Sir:

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. §122(b).

Respectfully submitted,

Shane H. Hunter/

Registration No.41,858

Mintz, Levin, Cohn, Ferris,

Glovsky and Popeo, P.C.

One Financial Center

Boston, MA 02111

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Attorneys for Applicants

Please address all correspondence to Customer Number 30623.

Date: August 28, 2003